

Date: Fri, 18 Mar 94 21:07:27 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #305
To: Info-Hams

Info-Hams Digest

Fri, 18 Mar 94

Volume 94 : Issue 305

Today's Topics:

10 meter repeater...

1x1 Callsigns?

FT1000D & Heil Pro-set 4?

radio FTP area on Oakland

Heath 2036 manual

ORBS\$077.2L,AMSAT

ORBS\$077, MTCR0, AMSAT

ORBS\$077 OSCAR AMSAT

6077 WEATH

PC-COM TNC

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Send subscription requests to: INFO-Hans REQUEST@UCSD.EDU

Send subscription requests to: <Info-Hams-REQUEST@UCS>
Problems you can't solve otherwise to ham@uucp.edu

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.EDU in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 16 Mar 94 18:56:00 GMT

From: ihnp4.ucsd.edu!swindlememory!news-feed-2.peachnet.edu!concert!news.duke.edu!

duke!wolves!psybbs!fredmail@network.ucsdu.edu

Subject: 10 meter repeater

To: info-hams@ucl.ac.uk

Does (or has) anyone out there have experience with 10 meter repeater construction/installation? I have a machine nearly completed, and would like to share info/ask for voices of experience in this matter. Any input would be appreciated. 73 de WB4TUY 29.680/29.580

X OLX 2.2 X 2 most common elements in the universe:Hydrogen,Stupidity

Date: Thu, 17 Mar 1994 17:33:52 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hplb!hpwin052!hpqmoea!
dstock@network.ucsd.edu
Subject: 1x1 Callsigns?
To: info-hams@ucsd.edu

ITU regulations govern what sorts of radio transmissions a country may permit. The country is free to choose not to permit all of the things that it could.

All callsigns issued by a country must use the assigned initial characters, but the subsequent characters are chosen freely by that country, and assigned to permitted stations however that country wishes.

That's why there's so much variation in how countries handle regional and licence class differences.

The UK got G, M, and some things beginning with 2 when the alphabet got shared out and decided to use G, possibly a second letter, digit for amateurs, and all letter calls beginning with M for government stuff. As a 1-off special offer, M0RSE was issued for a limited period to an amateur group. The new novice licence uses the 2 series.

I've no idea who chose an allocation with such a memorable mnemonic for the US. T'wasn't me, I wasn't born then....

Cheers
david GM4ZNX

Date: Thu, 17 Mar 94 08:18:40 MST
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!udel!
pacs.sunbelt.net!lynx.unm.edu!dns1.NMSU.Edu!dns1.NMSU.Edu!usenet@network.ucsd.edu
Subject: FT1000D & Heil Pro-set 4?
To: info-hams@ucsd.edu

On Tue, 15 Mar 1994 21:12:49 GMT, Sandy Lynch wrote:

>
>I have recently ordered the new Heil Pro-set 4 headset to go with
>my FT-1000D. Unfortunately, since I am still in temporary digs, I have
>no antenna and no way to use the rig - yet. However, I have heard
>that there may be some difficulties in getting enough audio drive

>out of the FT1000 to the Pro-set headset. Does anyone have first-hand
>experience with this? Is there really a potential problem?
>
>Cheers de Sandy WA6BXH/7J1ABV slay@netcom.com WA6BXH@NOARY
Sandy: I have the new Heil Pro-Headset and an FT 1000D and their is a
problem. The headphone jack in the 1000 is driven by a low level stero
signal for seperation of the two rx. when in the dual mode. The normal
speaker output is a both signals summed output at higher level. the Heil
set appears to be a 4-8 ohm device looking for the kind of drive available
from the speaker jack. The haedset works fine if I connect it to the
speaker output but has far too low audio level if I connect it to my
headphone jack. 73 Bill

Date: Fri, 18 Mar 1994 11:12:21 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!
magnus.acs.ohio-state.edu!csn!csus.edu!netcom.com!wy1z@network.ucsd.edu
Subject: Ham Radio FTP area on Oakland
To: info-hams@ucsd.edu

This is a periodic reminder that the Boston Amateur Radio Club maintains an
FTP area on oak.oakland.edu (141.210.10.117) in /pub/hamradio.

Oakland is available via the following methods:

On most systems, the command needed is: ftp oak.oakland.edu
or: ftp 141.210.10.117
For Gopher: gopher gopher.oakland.edu 70
World Wide Web URL: <http://www.acs.oakland.edu>

Please feel free to browse through the area.

If anyone has any questions about it, please do not hesitate to e-mail
either of the co-moderators listed below.

Also, up-to-date copies of the files on the ARRL's information server
(info@arrl.org) are available in the directory /pub/hamradio/ARRL/Server-files

Source code for programs is always welcome. It can permit people to use
those programs on other computers with other operating systems.

Scott Ehrlich, WY1Z, co-moderator
wy1z@netcom.com

Phil Temples, K9HI, co-moderator
k9hi@netcom.com

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=====
| Scott Ehrlich      Amateur Radio: wy1z      AMPRnet: wy1z@wa1phy.ampr.org |
| Internet: wy1z@neu.edu    BITnet: wy1z@NUHUB      AX.25: wy1z@wa1phy.ma.usa.na |
|-----|
|      Maintainer of the Boston Amateur Radio Club hamradio FTP area on      |
| oak.oakland.edu:/pub/hamradio           |
=====
```

Date: 18 Mar 1994 10:59:21 GMT

From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!europa.eng.gtefsd.com!gatech!
mailer.acns.fsu.edu!freenet3.scri.fsu.edu!freenet2.scri.fsu.edu!
ka4hpb@network.ucsd.edu
Subject: Heath 2036 manual
To: info-hams@ucsd.edu

Ty:

How you doing.....I have a Heath HW-2036a and its manual,although
I am not willing to part with the manual,I may be talked into copying
parts of the manual,I assume that the radio is already put together
so he probably won't neet the assembly instructions,so if he thinks
I can help,just let me know,you can respond to me via freenet, the
address is KA4HPB@Freenet.SCR.FSU.EDU.....see ya.....

Joe,

Date: 18 Mar 94 13:38:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$077.2L.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-077.N
2Line Orbital Elements 077.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX March 18, 1994
BID: \$ORBS-077.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFFF.FFFF GGGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ

KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83058B 94074.03621199 -.00000107 00000-0 10000-3 0 2699
2 14129 27.1901 337.1540 6022168 162.1847 234.6755 2.05878068 80842

U0-11

1 14781U 84021B 94076.08262229 .00000387 00000-0 73489-4 0 6746
2 14781 97.7911 95.1034 0010946 200.8625 159.2135 14.69171604536786

RS-10/11

1 18129U 87054A 94075.40199974 .00000041 00000-0 28565-4 0 8829
2 18129 82.9231 37.4191 0010266 287.1702 72.8326 13.72333370337187

A0-13

1 19216U 88051B 94072.40935734 .00000166 00000-0 10000-4 0 8939
2 19216 57.8759 263.4718 7210812 336.8024 2.5676 2.09719189 44000

F0-20

1 20480U 90013C 94071.45658699 -.00000021 00000-0 25451-4 0 6688
2 20480 99.0216 241.6090 0540420 198.5456 159.5252 12.83224395191726

A0-21

1 21087U 91006A 94072.89324047 .00000094 00000-0 82657-4 0 4443
2 21087 82.9367 213.2088 0035958 352.1754 7.8836 13.74535804156493

RS-12/13

1 21089U 91007A 94075.53910009 .00000057 00000-0 44794-4 0 6721
2 21089 82.9174 80.1605 0030126 9.5405 350.6312 13.74037277155921

ARSENE

1 22654U 93031B 94064.50000000 -.00000119 00000-0 00000 0 0 2469
2 22654 1.6510 105.2680 2927552 173.8780 198.1380 1.42201225 2991

U0-14

1 20437U 90005B 94072.21549149 .00000072 00000-0 44764-4 0 9737
2 20437 98.5925 158.2846 0011701 110.0876 250.1559 14.29829808215874

A0-16

1 20439U 90005D 94076.19336562 .00000065 00000-0 42387-4 0 7743
2 20439 98.6002 163.3475 0012127 99.9777 260.2776 14.29885704216451

D0-17

1 20440U 90005E 94076.22662674 .00000074 00000-0 45623-4 0 7730
2 20440 98.6015 163.6736 0012240 99.1450 261.1119 14.30024568216474

W0-18

1 20441U 90005F 94072.21203773 .00000059 00000-0 39794-4 0 7743
2 20441 98.6013 159.7138 0012829 111.2783 248.9762 14.29998941215900

L0-19

1 20442U 90005G 94076.18464293 .00000080 00000-0 47723-4 0 7734
2 20442 98.6015 163.8733 0013183 99.4776 260.7899 14.30094641216486

U0-22

1 21575U 91050B 94075.24420930 .00000097 00000-0 47355-4 0 4757
2 21575 98.4400 151.5895 0007108 202.4817 157.6059 14.36899328139730

K0-23

1 22077U 92052B 94076.18255996 -.00000037 00000-0 10000-3 0 3705
 2 22077 66.0833 112.6185 0011519 310.3641 49.6367 12.86285535 74950
 A0-27
 1 22825U 93061C 94072.21774410 .00000113 00000-0 63718-4 0 2702
 2 22825 98.6611 148.9612 0009401 126.7150 233.4895 14.27613170 23998
 I0-26
 1 22826U 93061D 94072.20569811 .00000134 00000-0 71926-4 0 2702
 2 22826 98.6611 148.9734 0009962 126.0055 234.2050 14.27715988 23995
 K0-25
 1 22830U 93061H 94076.16166154 .00000077 00000-0 48244-4 0 2746
 2 22830 98.5601 151.1197 0012546 85.4566 274.8057 14.28040646 24568
 NOAA-9
 1 15427U 84123A 94074.03402688 .00000126 00000-0 90853-4 0 7505
 2 15427 99.0656 123.3704 0015705 122.8642 237.4045 14.13597974477046
 NOAA-10
 1 16969U 86073A 94073.99072129 .00000108 00000-0 64636-4 0 6475
 2 16969 98.5121 85.8616 0012156 244.1267 115.8662 14.24872785389191
 MET-2/17
 1 18820U 88005A 94076.18240290 .00000127 00000-0 99308-4 0 2729
 2 18820 82.5456 341.7797 0018514 79.0102 281.3131 13.84711418309624
 MET-3/2
 1 19336U 88064A 94072.89393314 .00000051 00000-0 10000-3 0 2689
 2 19336 82.5411 31.1102 0017651 137.2192 223.0298 13.16965600270718
 NOAA-11
 1 19531U 88089A 94073.96248747 .00000086 00000-0 71361-4 0 5590
 2 19531 99.1660 60.5963 0012728 40.9981 319.2144 14.12967309281919
 MET-2/18
 1 19851U 89018A 94075.85339731 .00000027 00000-0 10933-4 0 2716
 2 19851 82.5182 217.5195 0015409 122.8587 237.3935 13.84358686254919
 MET-3/3
 1 20305U 89086A 94075.88142870 .00000044 00000-0 10000-3 0 43
 2 20305 82.5576 333.8085 0006499 152.2875 207.8581 13.04425109210860
 MET-2/19
 1 20670U 90057A 94075.63449506 .00000024 00000-0 79036-5 0 7734
 2 20670 82.5434 281.9855 0017468 47.7992 312.4642 13.84190213187814
 FY-1/2
 1 20788U 90081A 94076.22426307 -.00000172 00000-0 -85968-4 0 9199
 2 20788 98.8393 99.2948 0013308 265.4548 94.5096 14.01312219180823
 MET-2/20
 1 20826U 90086A 94071.91097536 .00000059 00000-0 40218-4 0 7814
 2 20826 82.5228 222.5667 0012920 323.8660 36.1626 13.83574515174445
 MET-3/4
 1 21232U 91030A 94071.87651682 .00000051 00000-0 10000-3 0 6792
 2 21232 82.5362 237.6665 0014715 65.8899 294.3776 13.16460820138681
 NOAA-12
 1 21263U 91032A 94074.00396538 .00000180 00000-0 10013-3 0 9646
 2 21263 98.6278 103.8182 0013418 145.8585 214.3456 14.22379795147143
 MET-3/5

1 21655U 91056A 94076.19735930 .00000051 00000-0 10000-3 0 6877
2 21655 82.5556 181.6999 0014730 67.7742 292.4937 13.16828055124353
MET-2/21
1 22782U 93055A 94072.07378319 .00000044 00000-0 26732-4 0 2819
2 22782 82.5479 282.6058 0022877 131.3043 229.0093 13.83002641 26809
POSAT
1 22829U 93061G 94072.24139185 .00000073 00000-0 47209-4 0 2637
2 22829 98.6566 149.0227 0010769 114.2722 245.9582 14.28010738 24007
MIR
1 16609U 86017A 94075.82181288 .00007619 00000-0 10511-3 0 1779
2 16609 51.6463 289.2936 0015053 41.3927 318.8353 15.58193902461643
HUBBLE
1 20580U 90037B 94073.54142216 .00001087 00000-0 93515-4 0 4574
2 20580 28.4691 123.9060 0006308 177.0781 182.9845 14.90525553 15255
GRO
1 21225U 91027B 94074.15950667 .00005538 00000-0 12661-3 0 737
2 21225 28.4604 164.6497 0003468 223.7721 136.2602 15.40375395 42424
UARS
1 21701U 91063B 94076.25976255 .00002830 00000-0 26775-3 0 4872
2 21701 56.9834 167.4368 0004269 96.1849 263.9671 14.96533180137174
/EX

Date: 18 Mar 94 13:31:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$077.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-077.D
Orbital Elements 077.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH, TX March 18, 1994
BID: \$ORBS-077.D
TO ALL RADIO AMATEURS BT

Satellite: U0-14
Catalog number: 20437
Epoch time: 94072.21549149
Element set: 973
Inclination: 98.5925 deg
RA of node: 158.2846 deg
Eccentricity: 0.0011701
Arg of perigee: 110.0876 deg
Mean anomaly: 250.1559 deg
Mean motion: 14.29829808 rev/day
Decay rate: 7.2e-07 rev/day^2

Epoch rev: 21587
Checksum: 323

Satellite: A0-16
Catalog number: 20439
Epoch time: 94076.19336562
Element set: 774
Inclination: 98.6002 deg
RA of node: 163.3475 deg
Eccentricity: 0.0012127
Arg of perigee: 99.9777 deg
Mean anomaly: 260.2776 deg
Mean motion: 14.29885704 rev/day
Decay rate: 6.5e-07 rev/day^2
Epoch rev: 21645
Checksum: 337

Satellite: D0-17
Catalog number: 20440
Epoch time: 94076.22662674
Element set: 773
Inclination: 98.6015 deg
RA of node: 163.6736 deg
Eccentricity: 0.0012240
Arg of perigee: 99.1450 deg
Mean anomaly: 261.1119 deg
Mean motion: 14.30024568 rev/day
Decay rate: 7.4e-07 rev/day^2
Epoch rev: 21647
Checksum: 290

Satellite: W0-18
Catalog number: 20441
Epoch time: 94072.21203773
Element set: 774
Inclination: 98.6013 deg
RA of node: 159.7138 deg
Eccentricity: 0.0012829
Arg of perigee: 111.2783 deg
Mean anomaly: 248.9762 deg
Mean motion: 14.29998941 rev/day
Decay rate: 5.9e-07 rev/day^2
Epoch rev: 21590
Checksum: 327

Satellite: L0-19
Catalog number: 20442
Epoch time: 94076.18464293

Element set: 773
Inclination: 98.6015 deg
RA of node: 163.8733 deg
Eccentricity: 0.0013183
Arg of perigee: 99.4776 deg
Mean anomaly: 260.7899 deg
Mean motion: 14.30094641 rev/day
Decay rate: 8.0e-07 rev/day^2
Epoch rev: 21648
Checksum: 333

Satellite: U0-22
Catalog number: 21575
Epoch time: 94075.24420930
Element set: 475
Inclination: 98.4400 deg
RA of node: 151.5895 deg
Eccentricity: 0.0007108
Arg of perigee: 202.4817 deg
Mean anomaly: 157.6059 deg
Mean motion: 14.36899328 rev/day
Decay rate: 9.7e-07 rev/day^2
Epoch rev: 13973
Checksum: 324

Satellite: K0-23
Catalog number: 22077
Epoch time: 94076.18255996
Element set: 370
Inclination: 66.0833 deg
RA of node: 112.6185 deg
Eccentricity: 0.0011519
Arg of perigee: 310.3641 deg
Mean anomaly: 49.6367 deg
Mean motion: 12.86285535 rev/day
Decay rate: -3.7e-07 rev/day^2
Epoch rev: 7495
Checksum: 316

Satellite: A0-27
Catalog number: 22825
Epoch time: 94072.21774410
Element set: 270
Inclination: 98.6611 deg
RA of node: 148.9612 deg
Eccentricity: 0.0009401
Arg of perigee: 126.7150 deg
Mean anomaly: 233.4895 deg

Mean motion: 14.27613170 rev/day
Decay rate: 1.13e-06 rev/day^2
Epoch rev: 2399
Checksum: 287

Satellite: I0-26
Catalog number: 22826
Epoch time: 94072.20569811
Element set: 270
Inclination: 98.6611 deg
RA of node: 148.9734 deg
Eccentricity: 0.0009962
Arg of perigee: 126.0055 deg
Mean anomaly: 234.2050 deg
Mean motion: 14.27715988 rev/day
Decay rate: 1.34e-06 rev/day^2
Epoch rev: 2399
Checksum: 312

Satellite: K0-25
Catalog number: 22830
Epoch time: 94076.16166154
Element set: 274
Inclination: 98.5601 deg
RA of node: 151.1197 deg
Eccentricity: 0.0012546
Arg of perigee: 85.4566 deg
Mean anomaly: 274.8057 deg
Mean motion: 14.28040646 rev/day
Decay rate: 7.7e-07 rev/day^2
Epoch rev: 2456
Checksum: 307

/EX

Date: 18 Mar 94 13:28:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$077.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-077.0
Orbital Elements 077.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX March 18, 1994
BID: \$ORBS-077.0

TO ALL RADIO AMATEURS BT

Satellite: A0-10

Catalog number: 14129
Epoch time: 94074.03621199
Element set: 269
Inclination: 27.1901 deg
RA of node: 337.1540 deg
Eccentricity: 0.6022168
Arg of perigee: 162.1847 deg
Mean anomaly: 234.6755 deg
Mean motion: 2.05878068 rev/day
Decay rate: -1.07e-06 rev/day^2
Epoch rev: 8084
Checksum: 302

Satellite: U0-11

Catalog number: 14781
Epoch time: 94076.08262229
Element set: 674
Inclination: 97.7911 deg
RA of node: 95.1034 deg
Eccentricity: 0.0010946
Arg of perigee: 200.8625 deg
Mean anomaly: 159.2135 deg
Mean motion: 14.69171604 rev/day
Decay rate: 3.87e-06 rev/day^2
Epoch rev: 53678
Checksum: 318

Satellite: RS-10/11

Catalog number: 18129
Epoch time: 94075.40199974
Element set: 882
Inclination: 82.9231 deg
RA of node: 37.4191 deg
Eccentricity: 0.0010266
Arg of perigee: 287.1702 deg
Mean anomaly: 72.8326 deg
Mean motion: 13.72333370 rev/day
Decay rate: 4.1e-07 rev/day^2
Epoch rev: 33718
Checksum: 300

Satellite: A0-13

Catalog number: 19216
Epoch time: 94072.40935734
Element set: 893

Inclination: 57.8759 deg
RA of node: 263.4718 deg
Eccentricity: 0.7210812
Arg of perigee: 336.8024 deg
Mean anomaly: 2.5676 deg
Mean motion: 2.09719189 rev/day
Decay rate: 1.66e-06 rev/day^2
Epoch rev: 4400
Checksum: 322

Satellite: F0-20
Catalog number: 20480
Epoch time: 94071.45658699
Element set: 668
Inclination: 99.0216 deg
RA of node: 241.6090 deg
Eccentricity: 0.0540420
Arg of perigee: 198.5456 deg
Mean anomaly: 159.5252 deg
Mean motion: 12.83224395 rev/day
Decay rate: -2.1e-07 rev/day^2
Epoch rev: 19172
Checksum: 314

Satellite: A0-21
Catalog number: 21087
Epoch time: 94072.89324047
Element set: 444
Inclination: 82.9367 deg
RA of node: 213.2088 deg
Eccentricity: 0.0035958
Arg of perigee: 352.1754 deg
Mean anomaly: 7.8836 deg
Mean motion: 13.74535804 rev/day
Decay rate: 9.4e-07 rev/day^2
Epoch rev: 15649
Checksum: 329

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 94075.53910009
Element set: 672
Inclination: 82.9174 deg
RA of node: 80.1605 deg
Eccentricity: 0.0030126
Arg of perigee: 9.5405 deg
Mean anomaly: 350.6312 deg
Mean motion: 13.74037277 rev/day

Decay rate: 5.7e-07 rev/day^2
Epoch rev: 15592
Checksum: 286

Satellite: ARSENE
Catalog number: 22654
Epoch time: 94064.50000000
Element set: 246
Inclination: 1.6510 deg
RA of node: 105.2680 deg
Eccentricity: 0.2927552
Arg of perigee: 173.8780 deg
Mean anomaly: 198.1380 deg
Mean motion: 1.42201225 rev/day
Decay rate: -1.19e-06 rev/day^2
Epoch rev: 299
Checksum: 250

/EX

Date: 18 Mar 94 13:34:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$077.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-077.W
Orbital Elements 077.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH, TX March 18, 1994
BID: \$ORBS-077.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94074.03402688
Element set: 750
Inclination: 99.0656 deg
RA of node: 123.3704 deg
Eccentricity: 0.0015705
Arg of perigee: 122.8642 deg
Mean anomaly: 237.4045 deg
Mean motion: 14.13597974 rev/day
Decay rate: 1.26e-06 rev/day^2
Epoch rev: 47704
Checksum: 309

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94073.99072129
Element set: 647
Inclination: 98.5121 deg
RA of node: 85.8616 deg
Eccentricity: 0.0012156
Arg of perigee: 244.1267 deg
Mean anomaly: 115.8662 deg
Mean motion: 14.24872785 rev/day
Decay rate: 1.08e-06 rev/day^2
Epoch rev: 38919
Checksum: 338

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 94076.18240290
Element set: 272
Inclination: 82.5456 deg
RA of node: 341.7797 deg
Eccentricity: 0.0018514
Arg of perigee: 79.0102 deg
Mean anomaly: 281.3131 deg
Mean motion: 13.84711418 rev/day
Decay rate: 1.27e-06 rev/day^2
Epoch rev: 30962
Checksum: 295

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 94072.89393314
Element set: 268
Inclination: 82.5411 deg
RA of node: 31.1102 deg
Eccentricity: 0.0017651
Arg of perigee: 137.2192 deg
Mean anomaly: 223.0298 deg
Mean motion: 13.16965600 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 27071
Checksum: 276

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 94073.96248747
Element set: 559
Inclination: 99.1660 deg

RA of node: 60.5963 deg
Eccentricity: 0.0012728
Arg of perigee: 40.9981 deg
Mean anomaly: 319.2144 deg
Mean motion: 14.12967309 rev/day
Decay rate: 8.6e-07 rev/day^2
Epoch rev: 28191
Checksum: 333

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 94075.85339731
Element set: 271
Inclination: 82.5182 deg
RA of node: 217.5195 deg
Eccentricity: 0.0015409
Arg of perigee: 122.8587 deg
Mean anomaly: 237.3935 deg
Mean motion: 13.84358686 rev/day
Decay rate: 2.7e-07 rev/day^2
Epoch rev: 25491
Checksum: 342

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 94075.88142870
Element set: 4
Inclination: 82.5576 deg
RA of node: 333.8085 deg
Eccentricity: 0.0006499
Arg of perigee: 152.2875 deg
Mean anomaly: 207.8581 deg
Mean motion: 13.04425109 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 21086
Checksum: 300

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94075.63449506
Element set: 773
Inclination: 82.5434 deg
RA of node: 281.9855 deg
Eccentricity: 0.0017468
Arg of perigee: 47.7992 deg
Mean anomaly: 312.4642 deg
Mean motion: 13.84190213 rev/day
Decay rate: 2.4e-07 rev/day^2

Epoch rev: 18781
Checksum: 330

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94076.22426307
Element set: 919
Inclination: 98.8393 deg
RA of node: 99.2948 deg
Eccentricity: 0.0013308
Arg of perigee: 265.4548 deg
Mean anomaly: 94.5096 deg
Mean motion: 14.01312219 rev/day
Decay rate: -1.72e-06 rev/day^2
Epoch rev: 18082
Checksum: 326

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94071.91097536
Element set: 781
Inclination: 82.5228 deg
RA of node: 222.5667 deg
Eccentricity: 0.0012920
Arg of perigee: 323.8660 deg
Mean anomaly: 36.1626 deg
Mean motion: 13.83574515 rev/day
Decay rate: 5.9e-07 rev/day^2
Epoch rev: 17444
Checksum: 309

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94071.87651682
Element set: 679
Inclination: 82.5362 deg
RA of node: 237.6665 deg
Eccentricity: 0.0014715
Arg of perigee: 65.8899 deg
Mean anomaly: 294.3776 deg
Mean motion: 13.16460820 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 13868
Checksum: 339

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94074.00396538

Element set: 964
Inclination: 98.6278 deg
RA of node: 103.8182 deg
Eccentricity: 0.0013418
Arg of perigee: 145.8585 deg
Mean anomaly: 214.3456 deg
Mean motion: 14.22379795 rev/day
Decay rate: 1.80e-06 rev/day^2
Epoch rev: 14714
Checksum: 320

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 94076.19735930
Element set: 687
Inclination: 82.5556 deg
RA of node: 181.6999 deg
Eccentricity: 0.0014730
Arg of perigee: 67.7742 deg
Mean anomaly: 292.4937 deg
Mean motion: 13.16828055 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 12435
Checksum: 340

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94072.07378319
Element set: 281
Inclination: 82.5479 deg
RA of node: 282.6058 deg
Eccentricity: 0.0022877
Arg of perigee: 131.3043 deg
Mean anomaly: 229.0093 deg
Mean motion: 13.83002641 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 2680
Checksum: 292

/EX

Date: Thu, 17 Mar 1994 16:43:23 GMT
From: spsgate!mogate!newsgate!news@uunet.uu.net
Subject: PC-COM TNC
To: info-hams@ucsd.edu

Has anyone used the PC-COM TNC? I am having a little trouble with it releasing the PTT on my HTX202. Any other experiences would be helpful.

Thx

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R i c k C o t t l e
N7ZZD
Email:rrbk50@email.sps.mot.com

Date: Thu, 17 Mar 1994 17:57:28 GMT
From: ihnp4.ucsd.edu!pacbell.com!att-out!att-in!cbnewsm!hellman@network.ucsd.edu
Subject: qsl info
To: info-hams@ucsd.edu

I worked 5B4ADA in the cw contest. I got his PO Box from Dx Clusters but not his name. He's not in the 92 callbook.
Anyone know his name?
(Shees what a concept, you work a guy and all ya get is 599, you don't even learn his name)

Shel Darack WA2UBK dara@physics.att.com

End of Info-Hams Digest V94 #305

